Author Index of Vol. 135

Agren, J., 125
Alsem, W. H. M., 77
Appendino, P., 275

Badini, C., 275
Barbieri, F., 199
Barthole, M., 37
Bartout, J. D., 111
Bienvenu, Y., 111
Bilba, K., 141
Bloyce, A., 233, 247
Bohm, H. J., 185
Bonino, J. P., 51
Braszczynski, J., 105
Bronsveld, P. M., 77
Bruinsma, P., 77
Buekenhout, L., 225

Chadwick, G. A., 23, 209
Chambers, A. R., 287
Charles, D., 295
Chatain, D., 83, 89
Chorley, E. M., 173
Clyne, T. W., 145, 173, 281
Colclough, A., 203
Coudurier, L., 83

Dahl, N., 151
Danis, M., 45
De Bondt, S., 29
De Hosson, J. Th., 77
Delaey, L., 225
Delannay, F., 253
Dellis, M. A., 253
Dempster, B., 203
Derby, B., 213, 221
Deruyttere, A., 29
Dunand, D. C., 179
Duzczyk, J., 65

l'Esperance, G., 129
Eustathopoulos, N., 83, 89

Favry, Y., 203
Fredriksson, H., 119
Froyen, L., 29, 119, 225

Gaffet, E., 291
Girot, F., 45, 59
Giunchi, G., 199
Graham, U., 195
Gubbels, G. H. M., 135

ter Haar, J. H., 65
Hansen, P. N., 41
Hansen, S. F., 41
Hofmann, A., 157
Humphreys, F. J., 267

Jarfors, A., 119
Johnsen, T. E., 151

Kacar, A. S., 95
Kainer, K. U., 33, 243
Kehoe, F. P., 209
Keustermans, J. P., 253
Kieschke, R. R., 145
Kieselstein, E, 157

Lacoste, E., 45
Laurent, V., 89
Le Borgne, G., 37
Le Petitcorps, Y., 37, 59, 101, 141
Legoux, J. G., 129
Leonhardt, G., 157, 217
Lilholt, H., 161
Liu, Z.-K., 125
Llorca, N., 247

Manaud, J. P., 141
Marino, F., 275
Masson, J. J., 59
Melander, A., 125
Molins, R., 111
Mortensen, A., 1, 179

Mummery, P., 221
Musson, N. J., 237

Niklas, A., 225

Patuelli, C., 199
Pickard, S. M., 213
Podlesak, H., 157, 217

Quenisset, J. M., 37, 45, 101, 141

Rammerstorfer, F. G., 185
Rana, F., 95
Rousset, A., 51

Salvo, L., 129
Sargent, M. A., 77
Schroder, J., 33
Schulte, K., 59
Shahani, R. A., 281
Singer, A. R. E., 13
Sliwa, R., 259
Stefanescu, D. M., 95
Stephens, S. E., 287
Stephenson, T., 101
Suery, M., 129
Summers, J. C., 231

Tasmussen, N. W., 41
Than, E., 157
Tomasi, A., 275
Tweed, J. H., 73

Valentin, D., 203
Verelst, M., 51

Wegria, J., 253
Wieghardt, G., 217
Wilkinson, A. J., 189
Withers, P. J., 173

Young, R. M. K., 19
Yue, T. M., 239, 247

Zaffagnini, M., 199

Elsevier Sequoia/Printed in The Netherlands

Subject Index of Vol. 135

Ageing
6061 aluminium alloy–SiC particulate composite: a comparison between aging behaviour in T4 and T6 treatments, 275
Alloys
6061 aluminium alloy–SiC particulate composite: a comparison between aging behaviour in T4 and T6 treatments, 275
crystallization of metal matrix alloy in composites containing non-metallic particles, 105
fatigue behaviour of short alumina fibre reinforced AZ91 magnesium alloy metal matrix composite, 247
influence of particle oxidation on age hardening behaviour of as fabricated and remelted SiC reinforced Al–1%Mg alloys, 129
silica–aluminium alloy composites: a kinetic study, 101
the effect of magnesium and nickel as alloying elements in AlCu–SiC composites, 151
the effect of matrix composition on the mechanical properties of squeeze-cast aluminium alloy–Saffil metal matrix composites, 237
uniaxial tension and microstructure of a short alumina fibre-reinforced Al–2Mg alloy, 125
Aluminium
6061 aluminium alloy–SiC particulate composite: a comparison between aging behaviour in T4 and T6 treatments, 275
characterization of a C–Al metal matrix composite precursor, 59
comparative evaluation of extrusion and hot isostatic pressing as fabrication techniques for Al–SiC composites, 225
fatigue behaviour of short alumina fibre reinforced AZ91 magnesium alloy metal matrix composite, 247
high pressure die casting of fibre-reinforced aluminium by preform infiltration, 41
influence of particle oxidation on age hardening behaviour of as fabricated and remelted SiC reinforced Al–1%Mg alloys, 129
interface problems in aluminium matrix composites reinforced with coated carbon fibres, 157
interfaces in composites of alumina in a molybdenum matrix, 135
machining of Al–5Mg reinforced with 5 vol.% Saffil and 15 vol.% SiC, 287
manufacture of 2014 aluminium reinforced with SiC particulate by vacuum hot pressing, 73
mechanical and physical properties of squeeze-cast aluminium metal matrix composites containing 5%–30% Saffil, 209
microstructural and analytical characterization of Al_2O_3–(Al–Mg) composite interfaces, 111
microstructural analysis of hot isostatically pressed Al–SiC, 77
mixing of powder metallurgical fibre-reinforced aluminium composites, 65
on failure processes in aluminium matrix composites reinforced with coated carbon fibres, 217
on the thermodynamics and kinetics of carbides in the aluminium-rich corner of the Al–Ti–C phase diagram, 119
segregation of magnesium in squeeze-cast aluminium matrix composites reinforced with alumina fibres, 37
silica–aluminium alloy composites: a kinetic study, 101
squeeze casting of hybrid Al–SiC fibre-particle composites, 29
the effect of magnesium and nickel as alloying elements in AlCu–SiC composites, 151
the effect of matrix composition on the mechanical properties of squeeze-cast aluminium alloy–Saffil metal matrix composites, 237
the thermomechanical processing of Al–siC particulate composites, 267
thermomechanical behaviour of SiC–Al composites, 203
uniaxial tension and microstructure of a short alumina fibre-reinforced Al–2Mg alloy, 125
wettability of SiO_2 and oxidized SiC by aluminium, 89
Zn–Al matrix composites: investigation of the thermal expansion, creep resistance and fracture toughness, 257

Ball milling
ball milling: an E–v–T parameter phase diagram, 291

Carbon
6061 aluminium alloy–SiC particulate composite: a comparison between aging behaviour in T4 and T6 treatments, 275
characterization of a C–Al metal matrix composite precursor, 59
comparative evaluation of extrusion and hot isostatic pressing as fabrication techniques for Al–SiC composites, 225
development of a diffusion barrier for SiC monofilaments in titanium, 145
influence of particle oxidation on age hardening behaviour of as fabricated and remelted SiC reinforced Al–1%Mg alloys, 129
interface problems in aluminium matrix composites reinforced with coated carbon fibres, 157
investigation of diffusion barrier coatings on SiC monofilaments for use in titanium-based composites, 141
machining of Al–5Mg reinforced with 5 vol.% Saffil and 15 vol.% SiC, 287
manufacture of 2014 aluminium reinforced with SiC particulate by vacuum hot pressing, 73
microstructural analysis of hot isostatically pressed Al–SiC, 77
on failure processes in aluminium matrix composites reinforced with coated carbon fibres, 217
on the thermodynamics and kinetics of carbides in the aluminium-rich corner of the Al–Ti–C phase diagram, 119

Elsevier Sequoia/Printed in The Netherlands

static and dynamic properties of squeeze-cast A357–SiC particulate Duralcan metal matrix composite, 231
the thermomechanical processing of Al–SiC particulate composites, 267
thermomechanical behaviour of SiC–Al composites, 203
wettability of SiO_2 and oxidized SiC by aluminium, 89

Ceramics
wetting and interfacial chemistry in liquid metal–ceramic systems, 83

Composites
6061 aluminium alloy–SiC particulate composite: a comparison between aging behaviour in T4 and T6 treatments, 275
a test determining the ability of different materials to undergo simultaneous plastic deformation to produce metal composites, 259
aspects of deformation of metal matrix composites, 161
characterization of a C–Al metal matrix composite precursor, 59
comparative evaluation of extrusion and hot isostatic pressing as fabrication techniques for Al–SiC composites, 225
crystallization of metal matrix alloy in composites containing non-metallic particles, 105
deformation studies of metal matrix composites using electron backscatter patterns, 189
electroforming of metal matrix composite: dispersoid grain size dependence of thermostructural and mechanical properties, 51
fatigue behaviour of short alumina fibre reinforced AZ91 magnesium alloy metal matrix composite, 247
influence of heat treatment on the properties of short-fibre-reinforced magnesium composites, 243
interface problems in aluminium matrix composites reinforced with coated carbon fibres, 157
interfaces in composites of alumina in a molybdenum matrix, 135
interfacial phenomena in the solidification processing of metal matrix composites, 1
investigation of diffusion barrier coatings on SiC monofilaments for use in titanium-based composites, 141
kinetics of gas-to-liquid transfer of particles in metal matrix composites, 95
magnesium-base hybrid composites prepared by liquid infiltration, 33
mechanical and physical properties of squeeze-cast aluminium metal matrix composites containing 5%–30% Saffil, 209
metal matrix composites made by spray forming, 13
micromechanical investigation of the processing and loading of fibre-reinforced metal matrix composites, 185
microstructural and analytical characterization of Al_2O_3–(Al–Mg) composite interfaces, 111
mixing of powder metallurgical fibre-reinforced aluminium composites, 65
on failure processes in aluminium matrix composites reinforced with coated carbon fibres, 217
recrystallization in fibrous and particulate metal matrix composites, 281
segregation of magnesium in squeeze-cast aluminium matrix composites reinforced with alumina fibres, 37
silica–aluminium alloy composites: a kinetic study, 101
squeeze casting of hybrid Al–SiC fibre–particle composites, 29
squeeze casting of metal matrix composites using short fibre preforms, 23
static and dynamic properties of squeeze-cast A357–SiC particulate Duralcan metal matrix composite, 231
the behaviour of metal matrix composites during temperature cycling, 213
the effect of matrix composition on the mechanical properties of squeeze-cast aluminium alloy–Saffil metal matrix composites, 237
the influence of microstructure on the fracture behaviour of particulate metal matrix composites, 221
the thermomechanical processing of Al–SiC particulate composites, 267
thermomechanical behaviour of SiC–Al composites, 203
unlocking the potential of metal matrix composites for civil aircraft, 295
use of the frozen-stress photoelastic method to explore load partitioning in short-fibre composites, 173
X-ray diffraction line broadening Fourier analysis of a metal matrix composite obtained by liquid infiltration, 199
Zn–Al matrix composites: investigation of the thermal expansion, creep resistance and fracture toughness, 253

Copper
the effect of magnesium and nickel as alloying elements in AlCu–SiC composites, 151

Creep
Zn–Al matrix composites: investigation of the thermal expansion, creep resistance and fracture toughness, 253

Crystallization
crystallization of metal matrix alloy in composites containing non-metallic particles, 105

Deformation
a test determining the ability of different materials to undergo simultaneous plastic deformation to produce metal composites, 259
aspects of deformation of metal matrix composites, 161
deformation studies of metal matrix composites using electron backscatter patterns, 189

Die casting
high pressure die casting of fibre-reinforced aluminium by preform infiltration, 41

Diffusion barriers
development of a diffusion barrier for SiC monofilaments in titanium, 145
investigation of diffusion barrier coatings on SiC monofilaments for use in titanium-based composites, 141

Dynamic properties
static and dynamic properties of squeeze-cast A357–SiC particulate Duralcan metal matrix composite, 231

Electroforming
electroforming of metal matrix composite: dispersoid grain size dependence of thermostructural and mechanical properties, 51

Electron backscattering
deformation studies of metal matrix composites using electron backscatter patterns, 189

Extrusion
comparative evaluation of extrusion and hot isostatic pressing as fabrication techniques for Al–SiC composites, 225

Fatigue behaviour
fatigue behaviour of short alumina fibre reinforced AZ91 magnesium alloy metal matrix composite, 247
Fibres
a liquid metal infiltration model of unidirectional fibre preforms in inert atmospheres, 19
fatigue behaviour of short alumina fibre reinforced AZ91 magnesium alloy metal matrix composite, 247
influence of heat treatment on the properties of short-fibre-reinforced magnesium composites, 243
interface problems in aluminium matrix composites reinforced with coated carbon fibres, 157
micromechanical investigation of the processing and loading of fibre-reinforced metal matrix composites, 185
mixing of powder metallurgical fibre-reinforced aluminium composites, 65
non-linear model of the mechanical response of fibre-reinforced laminates to mechanical loading, 195
numerical simulation of the injection moulding of thin parts by liquid metal infiltration of fibrous preforms, 45
on failure processes in aluminium matrix composites reinforced with coated carbon fibres, 217
recrystallization in fibrous and particulate metal matrix composites, 281
segregation of magnesium in squeeze-cast aluminium matrix composites reinforced with alumina fibres, 37
squeeze casting of hybrid Al–SiC fibre–particle composites, 29
squeeze casting of metal matrix composites using short fibre preforms, 23
uniaxial tension and microstructure of a short alumina fibre-reinforced Al–2Mg alloy, 125
use of the frozen-stress photoelastic method to explore load partitioning in short-fibre composites, 173
Fourier analysis
X-ray diffraction line broadening Fourier analysis of a metal matrix composite obtained by liquid infiltration, 199
Fracture behaviour
the influence of microstructure on the fracture behaviour of particulate metal matrix composites, 221
Fracture toughness
Zn–Al matrix composites: investigation of the thermal expansion, creep resistance and fracture toughness, 253

Grain size
electroforming of metal matrix composite: dispersoid grain size dependence of thermostructural and mechanical properties, 51

Heat treatment
influence of heat treatment on the properties of short-fibre-reinforced magnesium composites, 243
Hot isostatic pressing
comparative evaluation of extrusion and hot isostatic pressing as fabrication techniques for Al–SiC composites, 225

Infiltration
a liquid metal infiltration model of unidirectional fibre preforms in inert atmospheres, 19
high pressure die casting of fibre-reinforced aluminium by preform infiltration, 41
magnesium-base hybrid composites prepared by liquid infiltration, 33
numerical simulation of the injection moulding of thin parts by liquid metal infiltration of fibrous preforms, 45
X-ray diffraction line broadening Fourier analysis of a metal matrix composite obtained by liquid infiltration, 199
Injection moulding
numerical simulation of the injection moulding of thin parts by liquid metal infiltration of fibrous preforms, 45
Interfaces
interface problems in aluminium matrix composites reinforced with coated carbon fibres, 157
interfaces in composites of alumina in a molybdenum matrix, 135
interfacial phenomena in the solidification processing of metal matrix composites, 1
microstructural and analytical characterization of Al_2O_3–(Al–Mg) composite interfaces, 111
wetting and interfacial chemistry in liquid metal–ceramic systems, 83

Laminates
non-linear model of the mechanical response of fibre-reinforced laminates to mechanical loading, 195
Liquid metal
a liquid metal infiltration model of unidirectional fibre preforms in inert atmospheres, 19
numerical simulation of the injection moulding of thin parts by liquid metal infiltration of fibrous preforms, 45
wetting and interfacial chemistry in liquid metal–ceramic systems, 83
Load partitioning
use of the frozen-stress photoelastic method to explore load partitioning in short-fibre composites, 173

Magnesium
fatigue behaviour of short alumina fibre reinforced AZ91 magnesium alloy metal matrix composite, 247
influence of heat treatment on the properties of short-fibre-reinforced magnesium composites, 243
influence of particle oxidation on age hardening behaivour of as fabricated and remelted SiC reinforced Al–1%Mg alloys, 129
machining of Al–5Mg reinforced with 5 vol.% Saffil and 15 vol.% SiC, 287
magnesium-base hybrid composites prepared by liquid infiltration, 33
microstructural and analytical characterization of Al_2O_3–(Al–Mg) composite interfaces, 111
segregation of magnesium in squeeze-cast aluminium matrix composites reinforced with alumina fibres, 37
the effect of magnesium and nickel as alloying elements in AlCu–SiC composites, 151
uniaxial tension and microstructure of a short alumina fibre-reinforced Al–2Mg alloy, 125

Matrix composition
the effect of matrix composition on the mechanical properties of squeeze-cast aluminium alloy–Saffil metal matrix composites, 237
Microstructure
the influence of microstructure on the fracture behaviour of particulate metal matrix composites, 221
Molybdenum
interfaces in composites of alumina in a molybdenum matrix, 135
Monofilaments
development of a diffusion barrier for SiC monofilaments in titanium, 145
investigation of diffusion barrier coatings on SiC monofilaments for use in titanium-based composites, 141

Nickel
the effect of magnesium and nickel as alloying elements in AlCu–SiC composites, 151
Non-metallic particles
crystallization of metal matrix alloy in composites containing non-metallic particles, 105

Oxygen
microstructural and analytical characterization of Al_2O_3–(Al–Mg) composite interfaces, 111
wettability of SiO_2 and oxidized SiC by aluminium, 89

Particle transfer
kinetics of gas-to-liquid transfer of particles in metal matrix composites, 95
Particles
squeeze casting of hybrid Al–SiC fibre-particle composites, 29
thermal mismatch dislocations produced by large particles in a strain-hardening matrix, 179
Particulates
recrystallization in fibrous and particulate metal matrix composites, 281
the thermomechanical processing of Al–SiC particulate composites, 267
Phase diagrams
ball milling: an E–v–T parameter phase diagram, 291
on the thermodynamics and kinetics of carbides in the aluminium-rich corner of the Al–Ti–C phase diagram, 119
Plastics
a test determining the ability of different materials to undergo simultaneous plastic deformation to produce metal composites, 259
Powders
mixing of powder metallurgical fibre-reinforced aluminium composites, 65
Precursor
characterization of a C–Al metal matrix composite precursor, 59
Preforms
a liquid metal infiltration model of unidirectional fibre preforms in inert atmospheres, 19
high pressure die casting of fibre-reinforced aluminium by preform infiltration, 41
squeeze casting of metal matrix composites using short fibre preforms, 23

Recrystallization
recrystallization in fibrous and particulate metal matrix composites, 281

Silicon
6061 aluminium alloy–SiC particulate composite: a comparison between aging behaviour in T4 and T6 treatments, 275
comparative evaluation of extrusion and hot isostatic pressing as fabrication techniques for Al–SiC composites, 225
development of a diffusion barrier for SiC monofilaments in titanium, 145
influence of particle oxidation on age hardening behaviour of as fabricated and remelted SiC reinforced Al–1%Mg alloys, 129
investigation of diffusion barrier coatings on SiC monofilaments for use in titanium-based composites, 141
machining of Al–5Mg reinforced with 5 vol.% Saffil and 15 vol.% SiC, 287
manufacture of 2014 aluminium reinforced with SiC particulate by vacuum hot pressing, 73
microstructural analysis of hot isostatically pressed Al–SiC, 77
silica–aluminium alloy composites: a kinetic study, 101
squeeze casting of hybrid Al–SiC fibre–particle composites, 29
static and dynamic properties of squeeze-cast A357–SiC particulate Duralcan metal matrix composite, 231
the effect of magnesium and nickel as alloying elements in AlCu–SiC composites, 151
the thermomechanical processing of Al–SiC particulate composites, 267
thermomechanical behaviour of SiC–Al composites, 203
wettability of SiO_2 and oxidized SiC by aluminium, 89
Solidification
interfacial phenomena in the solidification processing of metal matrix composites, 1
Spray forming
metal matrix composites made by spray forming, 13
Squeeze casting
mechanical and physical properties of squeeze-cast aluminium metal matrix composites containing 5%–30% Saffil, 209
segregation of magnesium in squeeze-cast aluminium matrix composites reinforced with alumina fibres, 37
squeeze casting of hybrid Al–SiC fibre–particle composites, 29
squeeze casting of metal matrix composites using short fibre preforms, 23
static and dynamic properties of squeeze-cast A357–SiC particulate Duralcan metal matrix composite, 231
the effect of matrix composition on the mechanical properties of squeeze-cast aluminium alloy–Saffil metal matrix composites, 237
Static properties
static and dynamic properties of squeeze-cast A357–SiC particulate Duralcan metal matrix composite, 231
Strain hardening
thermal mismatch dislocations produced by large particles in a strain-hardening matrix, 179

Temperature cycling
the behaviour of metal matrix composites during temperature cycling, 213
Thermal expansion
Zn–Al matrix composites: investigation of the thermal expansion, creep resistance and fracture toughness, 253
Thermal mismatch dislocations
thermal mismatch dislocations produced by large particles in a strain-hardening matrix, 179
Thermostructure
electroforming of metal matrix composite: dispersoid grain size dependence of thermostructural and mechanical properties, 51
Titanium
development of a diffusion barrier for SiC monofilaments in titanium, 145
investigation of diffusion barrier coatings on SiC monofilaments for use in titanium-based composites, 141
on the thermodynamics and kinetics of carbides in the aluminium-rich corner of the Al–Ti–C phase diagram, 119
Vacuum hot pressing
manufacture of 2014 aluminium reinforced with SiC particulate by vacuum hot pressing, 73
Wetting
wettability of SiO_2 and oxidized SiC by aluminium, 89
wetting and interfacial chemistry in liquid metal–ceramic systems, 83
X-ray diffraction
X-ray diffraction line broadening Fourier analysis of a metal matrix composite obtained by liquid infiltration, 199
Zinc
Zn–Al matrix composites: investigation of the thermal expansion, creep resistance and fracture toughness, 253